

new graph environment

Tailboard / Site and Worker Assessment / Equipment and Vehicle Inspection / Emergency Contact List

Project: Al Irvine Location: ELK Date: July 27, 2021

Name	Crew Leader/Member	Signature
<u>Tammy Straws</u>	Leader <input checked="" type="checkbox"/> Member <input type="checkbox"/>	<u>[Signature]</u>
	Leader <input type="checkbox"/> Member <input type="checkbox"/>	
	Leader <input type="checkbox"/> Member <input type="checkbox"/>	
	Leader <input type="checkbox"/> Member <input type="checkbox"/>	

☒ COVID self assessment completed? ☐ Pre-existing Health Conditions?

Description of work: (ex. Culvert assessments) Knee electrofishing, water sampling, redd surveys, RPAS surveys etc.)

Site Conditions:

Clear	<input checked="" type="checkbox"/>	Dry	<input checked="" type="checkbox"/>	Hot	<input checked="" type="checkbox"/>	Cloudy/Broken	<input type="checkbox"/>
Raining	<input type="checkbox"/>	Wet	<input type="checkbox"/>	Warm	<input type="checkbox"/>	Foggy	<input type="checkbox"/>
Snowing	<input type="checkbox"/>	Muddy	<input type="checkbox"/>	Cold	<input type="checkbox"/>	Icy/Snow Covered	<input type="checkbox"/>

Site Risks and Hazards. Job risks:

Wildlife	<input checked="" type="checkbox"/>	Slippery and/or uneven ground	<input checked="" type="checkbox"/>	Chainsaw/knife/loppers (cuts)	<input checked="" type="checkbox"/>
Swiftwater	<input checked="" type="checkbox"/>	Exposure (heat/cold)	<input checked="" type="checkbox"/>	Electric Shock (electrofisher)	<input checked="" type="checkbox"/>
Remote worksite	<input checked="" type="checkbox"/>	Machinery	<input checked="" type="checkbox"/>	Open water	<input checked="" type="checkbox"/>
Traffic	<input checked="" type="checkbox"/>	ATV/Sled (roll over/burns/collision)	<input checked="" type="checkbox"/>	Overhead Snags	<input checked="" type="checkbox"/>
Bush roads	<input checked="" type="checkbox"/>	Chemicals	<input checked="" type="checkbox"/>	Sharp shrubs (eye injury)	<input checked="" type="checkbox"/>
Dogs	<input checked="" type="checkbox"/>	Helicopters (rotors, lines, stranding)	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>

Plans Reviewed:

Emergency Response Plan	<input checked="" type="checkbox"/>	Field Safety Plan (Call in / Call out Procedures)	<input checked="" type="checkbox"/>
Safe Work Procedures	<input type="checkbox"/>	Roles and Responsibilities	<input checked="" type="checkbox"/>

Personal Protective Equipment Checklist/Inspection:

Hi-Vis Vest	<input checked="" type="checkbox"/>	Protective footwear (assess condition)	<input checked="" type="checkbox"/>	Throw Bag	<input type="checkbox"/>
Cell phones / radio / spot	<input checked="" type="checkbox"/>	Hard Hat	<input checked="" type="checkbox"/>	PFD	<input type="checkbox"/>
Waders / Wading Belt	<input checked="" type="checkbox"/>	Water/ Food supplies	<input checked="" type="checkbox"/>	Dry Suit	<input type="checkbox"/>
Bear Spray/Bangers	<input checked="" type="checkbox"/>	Rainwear/ Weather Wear (extra coat)	<input checked="" type="checkbox"/>	Linesman Gloves	<input type="checkbox"/>
Level 1/ Personal FA Kit	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>	Whistle	<input type="checkbox"/>

Machinery Inspection (Vehicle/Trailer/ATV)

Vehicle ID Tundra

Obvious damage/leaks	<input checked="" type="checkbox"/>	Horn	<input checked="" type="checkbox"/>
Tires	<input checked="" type="checkbox"/>	Brakes	<input checked="" type="checkbox"/>
Headlights / tail lights / Signals	<input checked="" type="checkbox"/>	Parking Brake	<input checked="" type="checkbox"/>
Fuel	<input checked="" type="checkbox"/>	Uneven tire wear/rough steering?	<input checked="" type="checkbox"/>
Oil Level	<input checked="" type="checkbox"/>	Safety/Emergency information	<input checked="" type="checkbox"/>
Radiator fluid	<input checked="" type="checkbox"/>	Spare Tire/ Jack	<input checked="" type="checkbox"/>
Windshield fluid	<input checked="" type="checkbox"/>	Suspension/Steering	<input checked="" type="checkbox"/>
okay	<input type="checkbox"/>	needs attention	<input type="checkbox"/>

Housekeeping for Slips, Trips and Fall Prevention:

Slippery/uneven ground	<input type="checkbox"/>	Spills	<input type="checkbox"/>	Unsecured mats, tiles, carpets	<input type="checkbox"/>
Loose debris	<input type="checkbox"/>	Cables/cords	<input type="checkbox"/>	Smoke/Steam/Fog view obstruction	<input type="checkbox"/>

Poor lighting	<input type="checkbox"/>	Barriers in place	<input type="checkbox"/>	Good footwear	<input type="checkbox"/>
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Types of injuries that could occur:

Sprains/breaks/bruises	<input type="checkbox"/>	Crush injuries	<input type="checkbox"/>	Electrocution	<input type="checkbox"/>
Cuts/lacerations	<input type="checkbox"/>	Head injuries	<input type="checkbox"/>	Traffic accident related	<input type="checkbox"/>
Drowning	<input type="checkbox"/>	Exposure	<input type="checkbox"/>	Repetitive Strain (eg.tendonitis)	<input type="checkbox"/>

Barriers to first aid being provided to injured worker:

Unsafe Accident Scene	<input type="checkbox"/>	Victim/ Attendant Panic and/or Shock	<input type="checkbox"/>
Remote worksite (distance to Hospital/Vehicle)	<input type="checkbox"/>	Time to get Level 1 kit from vehicle if required	<input type="checkbox"/>
Slippery / Steep and/or uneven ground	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

First Aid Assessment (Check one) – See Appendix 8 of H&S Plan for details/lower requirement scenarios

Scenario	Requirement
<input checked="" type="checkbox"/> 6 – 30 workers and > 20 minutes from hospital and "low" risk of injury	Level 1 Certificate and Level 1 Kit
<input type="checkbox"/> 6 – 15 workers and > 20 minutes from hospital and "moderate" risk of injury	Level 1 Certificate, Level 1 Kit, Transportation endorsement and ETV equipment
<input type="checkbox"/> 6 – 10 workers and > 20 minutes from hospital and "high" risk of injury	Level 1 Certificate, Level 1 Kit, Transportation endorsement and ETV equipment
<input type="checkbox"/> 11 – 30 workers and > 20 minutes from hospital and "high" risk of injury	Level 3 Certificate, Level 3 Kit, dressing station and ETV

☒ Discuss incidents and close calls in past similar work (reasons for incident/close call and corrective actions taken/to be taken to avoid similar situations). *Snags*

☐ Discuss Relevant Industry Alerts:

Overhead hazards (snags/branches)	<input type="checkbox"/>	Secure contents in vehicles	<input type="checkbox"/>	Bears	<input type="checkbox"/>
Winter Driving Preparation	<input type="checkbox"/>	Alert while Driving	<input type="checkbox"/>	Vehicle Maintenance	<input type="checkbox"/>
Unstable machinery	<input type="checkbox"/>	Floods and Landslides	<input type="checkbox"/>	Devils Club in eyes	<input type="checkbox"/>

Worker Assessment

Worker: *Tammy Swans*

Assessed by: *Al Irvine*

Can identify worksite hazards	<input checked="" type="checkbox"/>	Wears hard hat / protection	<input checked="" type="checkbox"/>
Is alert and focused on job	<input checked="" type="checkbox"/>	Uses required hearing protection	<input type="checkbox"/>
Demonstrates safe use of tools & equip.	<input checked="" type="checkbox"/>	Wears high visibility / protective clothing	<input checked="" type="checkbox"/>
Demonstrates proper use of seat belt	<input checked="" type="checkbox"/>	Wears appropriate footwear for job	<input checked="" type="checkbox"/>
Has required license / certificate(s)	<input checked="" type="checkbox"/>	Wears wading belt / bear spray	<input checked="" type="checkbox"/>
Worker is Competent	<input type="checkbox"/>		

Feedback: _____

Signatures: _____

Worker: _____

Assessed by: *[Signature]*

☒ Call In/Call out Numbers

Crew Member		Personal Emergency Contact	Personal Emergency Contact #
Allan Irvine	250 777 1518	Tara Stark	250 352 5311 Cell: 250 505 9489
	<i>See Safety Plan (Field)</i>		
Inreach text (al)	226 241 6177 allanirvine75@inreach.garmin.com		

☐ Emergency Contact Info:

	Kaslo	Grand Forks	Nelson	Fernie	Creston	Mackenzie
RCMP Search&Rescue	911	911	911	911	911	911
Hospital	250 353 2225	250 443-2100	250 352-3111	250 423 4453	250 428 2286	2509973263
Poison Control			1 800 567 8911			

(250) 565-2000 Prince George Hospital

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Tailboard / Site and Worker Assessment / Equipment and Vehicle Inspection / Emergency Contact List

Project: AK IP Location: Lizard Date: Oct 13/2021

Name	Crew Leader/Member	Signature
<u>Alan Irwin</u>	Leader <input type="checkbox"/> Member <input type="checkbox"/>	<u>[Signature]</u>
<u>Bradley Klenk</u>	Leader <input type="checkbox"/> Member <input checked="" type="checkbox"/>	<u>[Signature]</u>
<u>Seavie Syer</u>	Leader <input type="checkbox"/> Member <input checked="" type="checkbox"/>	<u>[Signature]</u>
	Leader <input type="checkbox"/> Member <input type="checkbox"/>	

☒ COVID self assessment completed? ☒ Pre-existing Health Conditions?

Description of work: (ex. Culvert assessments, electrofishing, water sampling, redd surveys, RPAS surveys etc.)

Site Conditions:

Clear	<input checked="" type="checkbox"/>	Dry	<input type="checkbox"/>	Hot	<input type="checkbox"/>	Cloudy/Broken	<input checked="" type="checkbox"/>
Raining	<input type="checkbox"/>	Wet	<input type="checkbox"/>	Warm	<input type="checkbox"/>	Foggy	<input type="checkbox"/>
Snowing	<input type="checkbox"/>	Muddy	<input type="checkbox"/>	Cold	<input checked="" type="checkbox"/>	Icy/Snow Covered	<input type="checkbox"/>

Site Risks and Hazards. Job risks:

Wildlife	<input checked="" type="checkbox"/>	Slippery and/or uneven ground	<input checked="" type="checkbox"/>	Chainsaw/knife/loppers (cuts)	<input type="checkbox"/>
Swiftwater	<input checked="" type="checkbox"/>	Exposure (heat/cold)	<input checked="" type="checkbox"/>	Electric Shock (electrofisher)	<input checked="" type="checkbox"/>
Remote worksite	<input checked="" type="checkbox"/>	Machinery	<input checked="" type="checkbox"/>	Open water	<input checked="" type="checkbox"/>
Traffic	<input checked="" type="checkbox"/>	ATV/Sled (roll over/burns/collision)	<input checked="" type="checkbox"/>	Overhead Snags	<input checked="" type="checkbox"/>
Bush roads	<input checked="" type="checkbox"/>	Chemicals	<input checked="" type="checkbox"/>	Sharp shrubs (eye injury)	<input checked="" type="checkbox"/>
Dogs	<input checked="" type="checkbox"/>	Helicopters (rotors, lines, stranding)	<input type="checkbox"/>	Other	<input type="checkbox"/>

Plans Reviewed:

Emergency Response Plan	<input checked="" type="checkbox"/>	Field Safety Plan (Call in / Call out Procedures)	<input checked="" type="checkbox"/>
Safe Work Procedures	<input checked="" type="checkbox"/>	Roles and Responsibilities	<input checked="" type="checkbox"/>

Personal Protective Equipment Checklist/Inspection:

Hi-Vis Vest	<input checked="" type="checkbox"/>	Protective footwear (assess condition)	<input checked="" type="checkbox"/>	Throw Bag	<input type="checkbox"/>
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Machinery Inspection (Vehicle/Trailer/ATV)

Vehicle ID [Signature]

Obvious damage/leaks	<input checked="" type="checkbox"/>	Horn	<input checked="" type="checkbox"/>
Tires	<input checked="" type="checkbox"/>	Brakes	<input checked="" type="checkbox"/>
Headlights / tail lights / Signals	<input checked="" type="checkbox"/>	Parking Brake	<input checked="" type="checkbox"/>
Fuel	<input checked="" type="checkbox"/>	Uneven tire wear/rough steering?	<input checked="" type="checkbox"/>
Oil Level	<input checked="" type="checkbox"/>	Safety/Emergency information	<input checked="" type="checkbox"/>
Radiator fluid	<input checked="" type="checkbox"/>	Spare Tire/ Jack	<input checked="" type="checkbox"/>
Windshield fluid	<input checked="" type="checkbox"/>	Suspension/Steering	<input checked="" type="checkbox"/>
okay	<input type="checkbox"/>	needs attention	<input checked="" type="checkbox"/>

Housekeeping for Slips, Trips and Fall Prevention:

Slippery/uneven ground	<input type="checkbox"/>	Spills	<input type="checkbox"/>	Unsecured mats, tiles, carpets	<input type="checkbox"/>
Loose debris	<input type="checkbox"/>	Cables/cords	<input type="checkbox"/>	Smoke/Steam/Fog view obstruction	<input type="checkbox"/>

Poor lighting	<input type="checkbox"/>	Barriers in place	<input type="checkbox"/>	Good footwear	<input type="checkbox"/>
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Types of injuries that could occur:

Sprains/breaks/bruises	<input type="checkbox"/>	Crush injuries	<input type="checkbox"/>	Electrocution	<input type="checkbox"/>
Cuts/lacerations	<input type="checkbox"/>	Head injuries	<input type="checkbox"/>	Traffic accident related	<input type="checkbox"/>
Drowning	<input type="checkbox"/>	Exposure	<input type="checkbox"/>	Repetitive Strain (eg.tendonitis)	<input type="checkbox"/>

Barriers to first aid being provided to injured worker:

Unsafe Accident Scene	<input type="checkbox"/>	Victim/ Attendant Panic and/or Shock	<input type="checkbox"/>
Remote worksite (distance to Hospital/Vehicle)	<input type="checkbox"/>	Time to get Level 1 kit from vehicle if required	<input type="checkbox"/>
Slippery / Steep and/or uneven ground	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

First Aid Assessment (Check one) – See Appendix 8 of H&S Plan for details/lower requirement scenarios

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Winter Driving Preparation	<input type="checkbox"/>	Alert while Driving	<input type="checkbox"/>	Vehicle Maintenance	<input type="checkbox"/>
Unstable machinery	<input type="checkbox"/>	Floods and Landslides	<input type="checkbox"/>	Devils Club in eyes	<input type="checkbox"/>

Worker Assessment

Worker: Bo dy

Assessed by: A I

Can identify worksite hazards	<input checked="" type="checkbox"/>	Wears hard hat / protection	<input checked="" type="checkbox"/>
Is alert and focused on job	<input checked="" type="checkbox"/>	Uses required hearing protection	<input checked="" type="checkbox"/>
Demonstrates safe use of tools & equip.	<input checked="" type="checkbox"/>	Wears high visibility / protective clothing	<input checked="" type="checkbox"/>
Demonstrates proper use of seat belt	<input checked="" type="checkbox"/>	Wears appropriate footwear for job	<input checked="" type="checkbox"/>
Has required license / certificate(s)	<input checked="" type="checkbox"/>	Wears wading belt / bear spray	<input checked="" type="checkbox"/>
Worker is Competent	<input checked="" type="checkbox"/>		

Feedback: _____

Signatures:

Worker: _____

Assessed by: _____

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☐ Emergency Contact Info:

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RCMP Search&Rescue	911	911	911	911	911	911
Hospital	250 353 2225	250 443-2100	250 352-3111	250 423 4453	250 428 2286	2509973263
Poison Control	1 800 567 8911					

(250) 565-2000 Prince George Hospital

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Tailboard / Site and Worker Assessment / Equipment and Vehicle Inspection / Emergency Contact List

Project: Bulkley Location: Mission Date: Sept 16/2021

Name	Crew Leader/Member	Signature
<u>Al Irwin</u>	Leader <input type="checkbox"/> Member <input type="checkbox"/>	<u>[Signature]</u>
<u>Kyle Prince</u>	Leader <input type="checkbox"/> Member <input type="checkbox"/>	<u>[Signature]</u>
<u>Dallas Dikal</u>	Leader <input type="checkbox"/> Member <input type="checkbox"/>	<u>[Signature]</u>
<u>Tim Wilson</u>	Leader <input type="checkbox"/> Member <input type="checkbox"/>	<u>[Signature]</u>

☐ COVID self assessment completed? ☐ Pre-existing Health Conditions?

Description of work: (ex. Culvert assessments, electrofishing, water sampling, redd surveys, RPAS surveys etc.)

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Site Risks and Hazards. Job risks:

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Remote worksite	<input checked="" type="checkbox"/>	Machinery	<input type="checkbox"/>	Open water	<input type="checkbox"/>
Traffic	<input checked="" type="checkbox"/>	ATV/Sled (roll over/burns/collision)	<input type="checkbox"/>	Overhead Snags	<input type="checkbox"/>
Bush roads	<input checked="" type="checkbox"/>	Chemicals	<input type="checkbox"/>	Sharp shrubs (eye injury)	<input type="checkbox"/>
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Plans Reviewed:

Emergency Response Plan	<input type="checkbox"/>	Field Safety Plan (Call in / Call out Procedures)	<input type="checkbox"/>
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Machinery Inspection (Vehicle/Trailer/ATV)

Vehicle ID _____

Obvious damage/leaks	<input type="checkbox"/>	<input type="checkbox"/>	Horn	<input type="checkbox"/>	<input type="checkbox"/>
Tires	<input type="checkbox"/>	<input type="checkbox"/>	Brakes	<input type="checkbox"/>	<input type="checkbox"/>
Headlights / tail lights / Signals	<input type="checkbox"/>	<input type="checkbox"/>	Parking Brake	<input type="checkbox"/>	<input type="checkbox"/>
Fuel	<input type="checkbox"/>	<input type="checkbox"/>	Uneven tire wear/rough steering?	<input type="checkbox"/>	<input type="checkbox"/>
Oil Level	<input type="checkbox"/>	<input type="checkbox"/>	Safety/Emergency information	<input type="checkbox"/>	<input type="checkbox"/>
Radiator fluid	<input type="checkbox"/>	<input type="checkbox"/>	Spare Tire/ Jack	<input type="checkbox"/>	<input type="checkbox"/>
Windshield fluid	<input type="checkbox"/>	<input type="checkbox"/>	Suspension/Steering	<input type="checkbox"/>	<input type="checkbox"/>
okay	.	X	needs attention	.	X

Housekeeping for Slips, Trips and Fall Prevention:

Slippery/uneven ground	<input type="checkbox"/>	Spills	<input type="checkbox"/>	Unsecured mats, tiles, carpets	<input type="checkbox"/>
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Poor lighting	<input type="checkbox"/>	Barriers in place	<input type="checkbox"/>	Good footwear	<input type="checkbox"/>
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Cuts/lacerations	<input type="checkbox"/>	Head injuries	<input type="checkbox"/>	Traffic accident related	<input type="checkbox"/>
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Barriers to first aid being provided to injured worker:

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Winter Driving Preparation	<input type="checkbox"/>	Alert while Driving	<input type="checkbox"/>	Vehicle Maintenance	<input type="checkbox"/>
Unstable machinery	<input type="checkbox"/>	Floods and Landslides	<input type="checkbox"/>	Devils Club in eyes	<input type="checkbox"/>

Worker Assessment

Worker: _____ Assessed by: _____

Can identify worksite hazards	<input type="checkbox"/>	Wears hard hat / protection	<input type="checkbox"/>
Is alert and focused on job	<input type="checkbox"/>	Uses required hearing protection	<input type="checkbox"/>
Demonstrates safe use of tools & equip.	<input type="checkbox"/>	Wears high visibility / protective clothing	<input type="checkbox"/>
Demonstrates proper use of seat belt	<input type="checkbox"/>	Wears appropriate footwear for job	<input type="checkbox"/>
Has required license / certificate(s)	<input type="checkbox"/>	Wears wading belt / bear spray	<input type="checkbox"/>
Worker is Competent	<input type="checkbox"/>		

Feedback: _____

Signatures: Worker: _____ Assessed by: _____

☐ Call In/Call out Numbers

Crew Member		Personal Emergency Contact	Personal Emergency Contact #
Allan Irvine	250 777 1518	Tara Stark	250 352 5311 Cell: 250 505 9489
Inreach text (al)	226 241 6177 allanirvine75@inreach.garmin.com		

☐ Emergency Contact Info:

	Kaslo	Grand Forks	Nelson	Fernie	Creston	Mackenzie
RCMP Search&Rescue	911	911	911	911	911	911
Hospital	250 353 2225	250 443-2100	250 352-3111	250 423 4453	250 428 2286	2509973263
Poison Control	1 800 567 8911					

(250) 565-2000 Prince George Hospital



Mateo Winterscheidt <mateo@newgraphenvironment.com>

Fwd: BC Forest Safety Council Monthly Safety Alert

1 message

Allan Irvine <al@newgraphenvironment.com>

Thu, Jun 23, 2022 at 12:05 PM

To: Mateo Winterscheidt <mateo@newgraphenvironment.com>

Al Irvine, B.Sc., R.P.Bio.
New Graph Environment Ltd.
250-777-1518
al@newgraphenvironment.com
www.newgraphenvironment.com

----- Forwarded message -----

From: **BC Forest Safety** <alerts@bcforestsafe.org>
Date: Mon, Mar 28, 2022 at 10:20 AM
Subject: BC Forest Safety Council Monthly Safety Alert
To: <al@newgraphenvironment.com>



**BCFSC's Monthly Safety Alert
including the Latest News & Updates**

March 2022Download a printable PDF by clicking [here](#).**SPRING ROAD SAFETY**

Flooding in 2021 caused extensive damage to resource roads and other transportation infrastructure. Repair efforts continue but not all roads and watercourse crossings have been fixed. Spring weather conditions may cause new, unidentified problems. Road users play a key role in helping manage these challenging conditions – review the recommendations below on how to keep safe on the roads this spring.

Road Safety Information:

- Road users should use caution when driving, watching out for washouts and other road damage from past flooding. Slowing down is your best defense during spring driving.
- Increased run-off during break-up can put additional strain on roads, culverts and bridges. Be a responsible road user and report any damage or concerns to the appropriate forest company or the Ministry of Forests, Range and Natural Resource Operations so they can prioritize repair.
- Landslides are a concern in areas with high rainfall, snowmelt and where wildfires have reduced vegetation coverage. Even a small slump across a road can strand road users. Equip yourself and be prepared for spending a night or two in your vehicle.
- Spring road hazards don't always have to be major washouts or slides. Large pools of water, potholes, ruts and soft, muddy roads can all lead to problems.
- Don't rely on warning signs to identify all road hazards. Some road damage may be new, or you may be the first person down a road after a significant period of time.
- Follow your rainfall shut-down criteria closely to avoid being on site during times of high landslide risk.
- With the warmer weather, there will be an increase in road users including recreational users. These road users may not be aware of the rules of the road and radio communication procedures. Help new road users by communicating the safety procedures for the area.

Resources:

- [BCFSC Resource Road Safety](#)
- [Resource Road Driver Training \(Free Online Training\)](#)
- [In-vehicle Resource Road Driver Training](#)

LATEST NEWS, RESOURCES & UPCOMING TRAINING

BCFSC News & Resources

[New Video – Professional Industry Driver Training Program](#) – BCFSC's latest video on the Professional Industry Driver Program explains how this program is a key initiative to standardize the level of training and assessment for Professional Industry Drivers and Professional Log Truck Drivers.

Webinar: BCFSC, Road Safety at Work and Wildlife Collision Prevention Program present a 1-hour webinar on Thursday, May 12 from 11am – Noon. Register today for [Oh Deer! Driving Tips to Prevent Wildlife Collisions](#)

[Forest Safety Newsletter](#) – March |Spring 2022 Issue is now available.
Download a copy to share with your crew.

BCFSC Training:

Upcoming Classroom Training

Note: BCFSC requires full vaccination (2 doses) to attend in-person training courses. This is to support COVID-19 prevention measures from the Provincial Health Officer, especially related to the recent spread of the omicron variant. This requirement is in effect until further notice.

April 11 | [Forest Supervisor Communication – Campbell River](#)

This one-day classroom workshop will help supervisors and managers improve their communication skills at work.

April 12 | [Forest Supervisor Leadership and Professionalism – Campbell River](#)

This one-day classroom workshop will help participants understand their strengths and weaknesses, and to recognize how their personal style impacts the workers they supervise.

April 21 | [Basic Incident Investigation – Cranbrook](#)

This course provides a basic understanding of the methods, tools, and processes needed to conduct an incident investigation

April 21 | [Forest Supervisor Communication – Prince George](#)

This one-day classroom workshop will help supervisors and managers improve their communication skills at work.

April 22 | [Forest Supervisor Leadership and Professionalism – Prince George](#)

This one-day classroom workshop will help participants understand their strengths and weaknesses, and to recognize how their personal style impacts the workers they supervise.

April 22 | [Basic Incident Investigation – Nelson](#)

This course provides a basic understanding of the methods, tools, and processes needed to conduct an incident investigation

April 28-29 | [Small Employer OHS - Langley](#)

This two-day course is about occupational health and safety for small employers working in the forest sector.

April 28 | [Small Employer OHS Refresher – Langley](#)

This course provides a refresher for ISEBASE/SEBASE internal auditors.

April 29 | [Small Employer OHS Refresher – Langley](#)

This course provides a refresher for ISEBASE/SEBASE internal auditors.

Refer to the [Training section of our website](#) for more information on upcoming classroom training and costs.

Online Training

Phase Congestion Training– This free interactive online training course is available to help supervisors and workers better understand how to safely integrate phases and prevent phase congestion. Click here to self-enroll: [Online Learning Centre – BC Forest Safety Council](#)

Worker Assessment and Training

Each forestry occupation requires different knowledge and skillsets to perform the job at hand. BCFSC worked with industry to develop competency-based standards, training and assessment tools to help employers evaluate workers and complete on-the-job training.

Check out our [FREE online training and assessment forms](#) for Basic Forest Workers, Yarding, Mechanized Harvesting and Road Building.

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BC Forest Safety Council

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1-877-741-1060



Mateo Winterscheidt <mateo@newgraphenvironment.com>

Fwd: BC Forest Safety Council Monthly Safety Alert

1 message

Allan Irvine <al@newgraphenvironment.com>

Thu, Jun 23, 2022 at 12:05 PM

To: Mateo Winterscheidt <mateo@newgraphenvironment.com>

Al Irvine, B.Sc., R.P.Bio.
New Graph Environment Ltd.
250-777-1518
al@newgraphenvironment.com
www.newgraphenvironment.com

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From: **BC Forest Safety** <alerts@bcforestsafesafe.org>
Date: Fri, Dec 10, 2021 at 5:04 PM
Subject: BC Forest Safety Council Monthly Safety Alert
To: <al@newgraphenvironment.com>



**BCFSC's Monthly Safety Alert
including the Latest News & Updates**

December 2021Download a printable PDF by clicking [here](#).**MANAGING STRESS AND PREVENTING BURNOUT**

We live in unprecedented times. The impact of the global pandemic has forced many of us to adjust to new working environments and conditions. Additional PPE, new procedures, reduced social opportunities with coworkers and remote work settings are creating new stressors that are affecting mental health and personal wellness for many workers across the province.

Added layers of upsetting news about recent wildfires, flooding across BC and industry instability are also major contributors to rising stress and anxiety levels and can make it more difficult for us to prevent overwhelming surges of negative emotions.

This Safety Alert will review stress information and suggest good practices for managing stress, preventing burnout, avoiding a steady stream of distractions to keep you on track and help foster healthier habits to maintain mental and physical wellbeing

About Stress

Stress is our body's mental and physical reaction to changing or challenging external pressures. While stress can be helpful, if it becomes prolonged or excessive it can lead to mental and physical health issues.

Excessive stress can cause physical symptoms such as headaches, an upset stomach, elevated blood pressure, chest pain and problems sleeping. Stress also affects our mental health and excessive stress can result in depression, panic attacks or other forms of anxiety.

Stress and Safety Concerns

When dealing with stress, there is a greater chance of losing focus on work tasks and a greater potential for incidents to occur. Stress can also cause harm when people use substances or other negative behaviors to try to relieve their stress.

Managing stress effectively can help reduce negative affects and give us more clarity to allow us to pay attention to the critical safety aspects of our jobs.

Stress Relief

- Build good relationships with co-workers. Talk about stress and how it can be harmful. Watch out for each other and offer to help if someone is having problems with stress.
- Encourage co-workers to ask for help if they need it and provide them with positive support resources like counselling or Employee and Family Assistance Programs (EFAP).
- Exercise is also a great stress-buster. Something as simple as going for a walk can help to reduce stress.
- Try to surround yourself with people who support you and support them back.
- Be sure to make time for self-care. Set aside time for the things that bring you happiness such as spending time with family and friends and participating in activities that you love to do outside work.
- Getting enough good-quality sleep is also important for effective stress management. You can build healthy sleep habits by limiting your caffeine intake late in the day and minimizing stimulating activities at night, such as computer, cellphone and television use.
- Manage expectations: Build in sufficient time for work tasks and communicate these timelines to co-workers and loved ones.
- Be sure to take sufficient breaks when using a computer for a significant length of time. By taking a break from the screen and moving your body (stretch, go for a walk, step outside, etc.) you not only reduce your mental and physical strain, but it also has been shown to improve your productivity and creativity.

Additional Resources

- [BCFSC Healthy Worker Resources](#) – Industry focussed resources on Mental Health, Alcohol Use, Fitness, Fatigue, and other worker health topics
- [Stress Management Resources](#) from HealthLinkBC
- Canadian Centre for Occupational Health and Safety – [Workplace Stress](#)
- National Institute for Occupational Safety and Health – [Stress ... At Work](#)
- Statistics Canada – [What's Stressing the Stressed](#)
- Health Canada – [Coping with Stress](#)

LATEST NEWS, RESOURCES & UPCOMING TRAINING

BCFSC Holiday Hours - Dec 24 Open | Dec 27 & 28 Closed | Dec 29 – 31 Open | Jan 3 Closed

[Forest Safety Newsletter](#) – December 2021 Issue is now available. Download a copy to share with your crew.

[BCFSC Communications Kit](#) - BCFSC Safety Advisors, Felling Safety Advisors, Auditors and others will have the latest information and resource links to share with you and your crew during site visits. Click on the link to see an example of the BCFSC Comms Kit.

WorkSafeBC Webinar Recording - if you were unable to attend the HAND FALLER SAFETY INFORMATION WEBINAR on November 24th, you can access the webinar recording here.

youtu.be/mDnqRD9di9o

[New BCFSC Healthy Worker Resource](#) - If you or your co-worker are struggling with alcohol use, check out our newest healthy worker resource and learn more about assessing your alcohol intake and where to turn for help if you need it.

We're Hiring – BCFSC is currently seeking a Transportation Safety Program Manager for our Prince George office. The closing date for applications is 5pm, Friday, January 7, 2022. View the [job description](#).

BCFSC Training:

Upcoming 2022 Classroom Training - March Sessions

March 7 – 11 | [BCFSC Training Sessions in Haida Gwaii](#)

We have multiple training sessions coming up in Haida Gwaii (Skidgate) from March 7 – 11. If you would like to attend training in Haida Gwaii for [Small Employer OHS](#), [OHS Refresher Training](#), [Basic Incident Investigation Training](#) or [Forest Supervisor Due Diligence Training](#), go to our [Course Calendar](#) for more information and registration details.

March 14 – 15 | [Small Employer OHS – Campbell River](#)

This two-day course is about occupational health and safety for small employers working in the forest sector.

March 14 | [Small Employer OHS Refresher – Campbell River](#) This course provides a refresher for ISEBASE/SEBASE internal auditors. It is a requirement for eligibility for the WorkSafeBC Certificate of Recognition (COR) program.

March 15 | [Small Employer OHS Refresher – Campbell River](#) This course provides a refresher for ISEBASE/SEBASE internal auditors. It is a requirement for eligibility for the WorkSafeBC Certificate of Recognition (COR) program.

March 17 – 18 | [Forest Supervisor Due Diligence – Campbell River](#)

This two-day classroom workshop will equip supervisors with knowledge of their legal responsibilities and how to prove due diligence.

March 21 | [Felling Supervisor – Campbell River](#)

Participants will learn the roles and responsibilities of a felling supervisor and will become familiar with processes used by a felling supervisor to support their due diligence.

March 25 | [Basic Incident Investigation – Kamloops](#)

This course provides a basic understanding of the methods, tools, and processes needed to conduct an incident investigation.

March 28, 2022 - April 1 | [Felling Supervisor – Nelson](#)

Participants will learn the roles and responsibilities of a felling supervisor and will become familiar with processes used by a felling supervisor to support their due diligence.

Refer to the [Training section of our website](#) for more information on upcoming classroom training and costs.

Online Training

BCFSC offers a wide selection of free online training courses: Basic Forest Worker, Phase Congestion, Professional Industry Driver, Resource Road Driver, Serious Incident Investigation and more. Click here to self-enroll: [Online Learning Centre – BC Forest Safety Council](#)

NEW | [Wood Products Manufacturing Hazard Identification and Risk Assessment Training](#) –

BCFSC has launched a free interactive online training program to help workers in wood products manufacturing facilities identify, assess and control common hazards. This training was developed in partnership with the Manufacturing Advisory Group (MAG).

Worker Assessment and Training

Each forestry occupation requires different knowledge and skillsets to perform the job at hand. BCFSC worked with industry to develop competency-based standards, training and assessment tools to help employers evaluate workers and complete on-the-job training.

Check out our [FREE online training and assessment forms](#) for Basic Forest Workers, Yarding, Mechanized Harvesting and Road Building.

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1-877-741-1060



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Thu, Jun 23, 2022 at 12:04 PM

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From: **BC Forest Safety** <alerts@bcforestsafesafe.org>
Date: Fri, Feb 25, 2022 at 10:35 AM
Subject: BC Forest Safety Council Monthly Safety Alert
To: <al@newgraphenvironment.com>



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February 2022

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Hand Tool Safety

Jessie's excavator had been down all day and she needed to get it back in action. She grabbed the sledgehammer to drive the track pin back into place but forgot her safety glasses on the dash of the truck. She started hammering the pin in place and suddenly felt like something was in her eye. The first aider confirmed she had a piece of metal lodged in his eye and needed to go to the hospital immediately! Even after several operations, Jessie's vision was never the same.

Hand tools are used on a regular basis for many tasks like using a jack to change a tire or an axe to blaze a tree. Often, we don't think twice before grabbing one of these simple tools but there are important safety considerations to keep in mind.

Hand Tool Safety Information:

- Wear your PPE! Gloves can improve grip and prevent hand injuries and safety glasses are quick and easy to put on and can prevent life changing eye injuries.
- Choose the right tool for the job. For example, use the right size of wrench to prevent slips and damage to the tool and/or equipment. Don't use a screwdriver when a pry-bar is the right tool for the job.
- Beware of using hammers on metal parts or objects. Use soft metal hammers when there is a risk of metal shards breaking off and striking workers.
- Even simple hand tools need to be inspected and maintained. Examine your tools for excessive wear, cracks and dull edges.
- Hand tools can be simple to use but proper training and supervision is still required. Don't assume that everyone knows the proper techniques for all tools. This is especially important when working with new and young workers – what is obvious to you may be new to them.
- Overuse injuries are common with the repetitive use of hand tools. Get help with jobs that may cause excessive strain - especially if you're not used to that type of manual work.
- Hand tools are often used in situations when something goes wrong such as jacking a stuck vehicle, repairing broken down machinery or fighting a wildfire. These types of emergency conditions often have a higher risk of injury.
- Hand and finger injuries are very common when using hand tools. Take a moment to assess the task and ways that an injury might occur. Don't stick your hand or fingers in pinch or crush points.
- Know when to ask for help and turn it over to the professionals. Mechanics, tow truck drivers and your supervisor have access to specialized tools and knowledge to make the job easier and safer.
- Take your time! Rushing leads to missing important steps like wearing PPE.

Resources

- [Hazard Alert – Use a soft metal hammer on hard steel](#)
- [Hand Tools - General Hand Tool Operation: OSH Answers \(ccohs.ca\)](#)
- [Steel shard in worker's eye a reminder of need for protective eyewear](#)

LATEST NEWS, RESOURCES & UPCOMING TRAINING

BCFSC News & Updates

[New Switchback Video – Planning, Layout and Construction](#) – This video illustrates key messages for the correct planning, engineering and building of a switchback and the value the forest industry places on ensuring resource roads are safe for all users.

Working on Live Equipment Information Meeting: On **Wednesday, March 9, 2022, from 9:30am-10:00am**, WorkSafeBC's OHS Consultation & Education Services department and the BCFSC are co-sponsoring an online information presentation outlining the specific focus of a WorkSafeBC Occupation Safety Officer during a plant inspection. Meeting participants will be provided with a Q&A session after the presentation. Please join the meeting from your computer, tablet, or smartphone using this link: <https://meet.goto.com/363011461> or dial in from your phone toll free: 1 888 455-1389 use Access Code: 363-011-461

Changed your contact information? Let us know so we can keep our records up-to-date. Contact us by email at info@bcforestsafes.org or call us at 1-877-741-1060. Having the right contact information on file is the key to ensuring we can communicate with you – especially when it comes to your audit.

BCFSC Training

Upcoming Classroom Training

Note: BC Forest Safety requires full vaccination (2 doses) to attend in-person training courses. This is to support COVID-19 prevention measures from the Provincial Health Officer, especially related to the recent spread of the omicron variant. This requirement is in effect until further notice.

March 21-25 | [Falling Supervisor – Campbell River](#)

Participants will learn the roles and responsibilities of a falling supervisor and will become familiar with processes used by a falling supervisor to support their due diligence.

March 25 | [Basic Incident Investigation – Kamloops](#)

This course provides a basic understanding of the methods, tools, and processes needed to conduct an incident investigation.

March 31-April 1 | [Forest Supervisor Due Diligence – Prince George](#)

This two-day classroom workshop will equip supervisors with knowledge of their legal responsibilities and how to prove due diligence.

April 11 | [Forest Supervisor Communication – Campbell River](#)

This one-day classroom workshop will help supervisors and managers improve their communication skills at work.

April 12 | [Forest Supervisor Leadership and Professionalism – Campbell River](#)

This one-day classroom workshop will help participants understand their strengths and weaknesses, and to recognize how their personal style impacts the workers they supervise.

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Online Training

New Online Training – Leadership and Professionalism for Wood Products Manufacturing Supervisors and Stand Tender training are available at no charge for BC forest companies. Click here to self-enroll: [Online Learning Centre – BC Forest Safety Council](#)

Worker Assessment and Training

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From: **BC Forest Safety** <alerts@bcforestsafesafe.org>
Date: Fri, Jun 17, 2022 at 10:27 AM
Subject: BC Forest Safety Council Monthly Safety Alert
To: <al@newgraphenvironment.com>



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June 2022

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Log Hauling and Public Safety





Recently there have been serious incidents involving log hauling operations and the public. In one incident, a log truck lost its load while turning onto an on-ramp. The load struck and fatality injured a man who was beside the highway.

During the summer, more passenger and recreational vehicles are on highways and resource roads. Review the information below and consider how to improve the safety of your operations, drivers and other road users.

Safety Information:

- No two loads of logs are the same and this will affect the center of gravity and stability of the load. Give yourself a margin of error to prevent rollovers by slowing down, following best practices for load securement and maintaining your truck and trailer.
- With increased traffic, it's important to reduce speed and exercise more patience and care when driving. Be prepared for inexperienced road users and unexpected events on the road.
- We all get complacent from time to time. Now is a good time to review and commit to following safe work procedures. Most procedures are in place because of a past serious incident - follow them closely to avoid similar incidents.
- Take a close look at the areas on your truck and trailer(s) that may not receive regular maintenance such as bolster and scale pad bolts.
- Don't rely on the radio to know the location of all traffic on resource roads. Recreational users may not have radios or be familiar with the rules of the road.

Resources:

- [Log Truck Rollover Prevention Information](#)
- [Video: Standard of Care – It Saves to be Safe](#)
- [Alert: Maintenance of Bolster and Scale Pad Bolts](#)

Prepared by: Gerard Messier RPF, CRSP

LATEST NEWS, RESOURCES & UPCOMING TRAINING

BCFSC FIRS Lite App – The **BCFSC FIRS App** or **Forest Industry Reporting System** is a FREE resource available to all BCFSC Members. The first stage of the **BCFSC FIRS App** is a **lite version** and is now live and ready to use. It allows companies to submit and track incident reporting by submitting answers to five simple questions and uploading supporting photos into the record. It also includes a Supervisor's Queue allowing supervisors, safety professionals, and company owners to review submitted records and extract important information from the report such as the severity or nature of a reported injury.

The new lite version is available through the App store for Android and iOS devices. Simply go to the App store on your device and search for BCFSC FIRS to download the FREE App. To access the BCFSC FIRS Quick Add App, you will require a FIRS account. For security purposes, BCFSC will need to confirm your SAFE Certified Company first by emailing your registration request to FIRS@bcforestsafes.org. Registrations will be reviewed by BCFSC and once approved, your account will be established. An invitation email will be sent to your inbox where you can then set up your FIRS account with your registration details.

Forest Safety Newsletter – June |Summer 2022 Issue is now available. Download a copy to share with your crew.

Online Training

Serious Injury and Fatality Investigations – This free interactive online training course provides instruction on how to complete investigations for incidents involving serious injuries or fatalities. Click here to self-enroll: [Online Learning Centre – BC Forest Safety Council](#)

Worker Assessment and Training

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From: **BC Forest Safety** <alerts@bcforestsafe.org>

Date: Tue, Apr 12, 2022 at 9:54 AM

Subject: Fatality Alert

To: <al@newgraphenvironment.com>

FATALITY ALERT -PRELIMINARY INFORMATION-

Download a printable PDF by clicking [here](#).

BCFSC #2022-04-06

On April 6, 2022, a helicopter conducting cedar salvage operations went down near Sayward. The pilot sustained fatal injuries.

We extend our condolences to the family and friends of the deceased and our sympathies to all those affected by this incident.

This incident is under investigation and details are still to be determined.

This is the third forestry-related helicopter incident to occur since October 2021.

If you work with aircraft as part of your forestry operations, take this opportunity to meet with your air/helicopter service providers to discuss safety, the hazards related to air operations and steps to help improve safety practices.

Here are some suggestions for safety topics to review:

1. Pre-flight planning
2. Weather – go/no-go trip decisions
3. Communications – Pre-flight briefing, flight tracking, radio frequencies and hand signals
4. Passenger safety – approaching, boarding and disembarking the helicopter
5. Heli-pads and landing locations
6. Long-line operations
7. Emergency response to remote sites

Resources:

- 1) [Helicopter Long Line Safety Alert](#)
- 2) [2021 Helicopter Logging Fatality Alert](#)
- 3) [Safe Work Practices for Helicopter Operations in the Forest Industry](#)

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From: **BC Forest Safety** <alerts@bcforestsafesafe.org>
Date: Thu, Jan 27, 2022 at 11:39 AM
Subject: BC Forest Safety Council Monthly Safety Alert
To: <al@newgraphenvironment.com>



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January 2022

Download a printable PDF by clicking [here](#).

Helicopter Long Line Safety

Helicopters are an important part of many forestry operations. One of their functions is using long lines to move equipment or cargo.

Recently, a pilot was injured while landing a helicopter used in an aerial tree topping operation. After placing the tree topper onto a trailer, the suspension

cables carrying the tree trimmer snagged on the trailer's mounted fuel tank causing the helicopter to roll and strike the ground.

The following list features some safety precautions for ground crews and pilots to consider when using long lines.

Helicopter Long Line Safety Information:

- Develop a good plan prior to the helicopter's arrival. Scout all the sites, note the hazards and check in with the pilot to confirm the plan will work.
- Hold a safety meeting with the pilot and any ground crew before the lifting starts. Review the plan, discuss any hazards on site or along the flight path and how those hazards will be controlled. For example: dangerous trees or difficult terrain.
- Establish good radio communications between the pilot and ground crew. Hand signals should also be included in the communication plan and mutually agreed upon in case the radio communication doesn't work.
- Rotor wash can cause loose objects to fly up and strike people or the helicopter. Secure or remove all loose items from the site. Wear eye protection to keep dust and debris out. Use a hardhat with a chin strap to keep it from blowing off.
- Working under a helicopter can be a noisy and stressful environment. Make sure to work slowly and carefully.
- Ground crew should act as another set of eyes for the pilot, notifying them of any hazard(s) that they cannot see. For example: brush or trees near the tail rotor, snagged long lines or other problems in the pilot's blind spots.
- Don't assume that the pilot can see all the hazards that you can. The pilot will be focused on controlling the helicopter, so don't be afraid to let them know what you see. The pilot will appreciate the extra information.
- Ground crews must be trained properly to hook up the load while the helicopter is hovering. After the load is hooked up, the worker must move into the clear, and then signal it is safe to lift the load.
- Have more than one pre-determined escape route from the site in case the helicopter has difficulty with the load.
- During a helicopter lift, static electricity can build up and discharge through the line to a worker on the ground. Procedures should be in place to discharge built up electricity prior to the worker touching the line.

LATEST NEWS, RESOURCES & UPCOMING TRAINING

BCFSC News & Updates

WorkSafeBC - On January 7, 2022, the provincial health officer announced an order requiring employers to reinstate those site specific, prescriptive COVID-19 safety plans to address the elevated risk currently facing us with the Omicron variant. WorkSafeBC has provided detailed information on how to re-activate your COVID-19 safety plan to ensure that they are current and aligned with guidance and orders from the provincial health officer. [Visit WorkSafeBC](#) for more information.

Association of BC Forest Professionals - 2022 Virtual Forestry Conference & AGM Feb 2 – 4, 2022. [Register today](#).

Western Forestry Contractors' Association Conference – 41st annual (second virtual) conference Feb 9 - 11, 2022. [Register today](#).

Missed the Truck Logger's Association Conference? [Access the sessions on-demand](#) and catch up on what you missed.

Road Safety At Work – Distracted Driving Webinar. Distracted driving involves more than just phones. Road Safety at Work, BC Highway Patrol and ICBC are hosting a webinar on distracted driving on Thursday, February 24th from 10 – 11am. [Register today](#).

The Wood Pellet Association of Canada (WPAC), BC Forest Safety Council (BCFSC) and Dalhousie University have released their final report [Analysis of Deflagration Isolation in Wood Pellet Production for Safer Operation](#) in the Canadian Biomass Magazine.

BCFSC Training

Upcoming Classroom Training

Note: BC Forest Safety requires full vaccination (2 doses) to attend in-person training courses. This is to support COVID-19 prevention measures from the Provincial Health Officer, especially related to the recent spread of the omicron variant. This requirement is in effect until further notice.

March 7-8 | [Small Employer OHS – Haida Gwaii](#)

This two-day course is about occupational health and safety for small employers working in the forest sector.

March 9 | [Basic Incident Investigation – Haida Gwaii](#)

This course provides a basic understanding of the methods, tools, and processes needed to conduct an incident investigation.

March 10-11 | [Forest Supervisor Due Diligence – Haida Gwaii](#)

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From: **BC Forest Safety** <alerts@bcforestsafesafe.org>

Date: Tue, May 3, 2022 at 3:48 PM

Subject: Fatality Alert

To: <al@newgraphenvironment.com>

FATALITY ALERT

-PRELIMINARY INFORMATION-

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BCFSC #2022-04-25

On April 13th, 2022, a forestry worker was seriously injured while clearing brush along a road near Woss, BC. He was making falling cuts on an alder when it split and struck him. He was transported to hospital for treatment but unfortunately passed away on April 25th.

We extend our condolences to the family and friends of the deceased and our sympathies to all those affected by this incident.

This is the second direct harvesting fatality of 2022.

This incident is under investigation and details are still to be determined.

The following safety information should be reviewed to help prevent further serious incidents:

1. Even small trees cause serious injuries and fatalities. It is critical to complete

a thorough hazard assessment of all trees in order to anticipate how they will react and move when cut.

2. Alder and other hardwoods are prone to splitting and barber-chairing, making them a higher risk level of timber to fall. It is critical that workers are deemed competent and qualified before starting work.

3. Trees and logs are under tension or compression and can react unexpectedly when cut or disturbed. Where possible, plan alternate ways to complete the work so workers are not exposed to the hazard.

4. Ensure escape routes are established and tested for all falling and bucking activities. The escape route should provide cover where possible and should not be directly behind the cut, rather at a 45° angle away from the bucking cut or direction of fall.

5. Always seek qualified assistance when overcoming a bucking or falling difficulty and never work above your level of competence or qualification.

6. Refer to the Designated High-Risk Violations: Hand Falling or Bucking and the BC Faller Training Standard Info Flips for information on safe work procedures and the acceptable Standard for bucking and falling.

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